MNS iPDU
intelligent Power Distribution Units (PDU's)
ABB Low Voltage Systems

ABB Low Voltage Systems is the global leader in the supply of low voltage switchgear, motor control centres and MCCs in high-maintenance applications. ABB Bac的成功 includes the provision of high-voltage switchgear, power, control and protection systems to facilities throughout the world. ABB holds ISO14001, ISO18001 and OHSAS18001 certifications and is a member of the United Nations Environment Programme (UNEP) E-mobility Partnership.

The Challenge

Conventional power distribution systems experience high levels of maintenance and operational demands on the facilities side. The high level of load distribution and the need for ready access to the critical elements of the unit, without endangering personnel safety, presents a significant challenge for system designers. The MNS switchgear system is the benchmark for operational safety, reliability and quality.

The Solution

The MNS switchgear system provides key solutions for facilities centres and computer rooms including:

- Ability to safely and efficiently add or remove hardware under live conditions of the centre.
- Ability to provide maintenance access to the critical elements of the centre, without endangering personnel safety.
- Ability to safely and efficiently add or remove hardware under live conditions of the centre.
- Ability to maintain critical units.
- Ability to maintain critical elements without endangering personnel safety.
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The Benefits

- Ability to maintain critical elements without endangering personnel safety.
- Ability to provide maintenance access to the critical elements of the centre, without endangering personnel safety.
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### /PDU infrastructure

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### Flexibility gives you confidence

#### MNS /PDU

- **Best maintenance is no maintenance**
- **Modular Core**
  - Single or multi-core busbars can be easily motorised and controlled
  - **MNS Multi-Function Wall (MFW)**
  - **Power contact connector**
  - **Load switch**
  - **T-Taps**
  - **ArTu system**
  - **Filter and busbar**
  - **Phase orientation and phase sequencing**
  - **Phase-to-phase isolation**
  - **Phase-to-ground isolation**
  - **Filter and busbar**
  - **Power contact connector**
  - **Load switch**
  - **T-Taps**
  - **ArTu system**

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**Guidelines**

- **Multi-Function Wall (MFW)**
  - **Power contact connector**
  - **Load switch**
  - **T-Taps**
  - **ArTu system**

**Common barriers**

- **Multi-Function Wall (MFW)**
  - **Power contact connector**
  - **Load switch**
  - **T-Taps**
  - **ArTu system**

**Client driven solutions**

- **Multi-Function Wall (MFW)**
  - **Power contact connector**
  - **Load switch**
  - **T-Taps**
  - **ArTu system**

**Testing and certification**

- **Multi-Function Wall (MFW)**
  - **Power contact connector**
  - **Load switch**
  - **T-Taps**
  - **ArTu system**

**Conclusion**

- **Multi-Function Wall (MFW)**
  - **Power contact connector**
  - **Load switch**
  - **T-Taps**
  - **ArTu system**

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**IET**

- **Commando style Sockets**
  - **High shortcircuit withstand ratings**
  - **Monitoring, alarms, trend & communications**

- **Miniature Circuit Breakers**

- **Moulded Case Circuit Breakers up to 630A**
  - **Standard DIN Rail mounted terminals**
  - **Analysis for 24/7 preventive maintenance**
  - **Direct device connection**
  - **Fully year round records of all activity**
  - **Individual Dual Plug & Socket connections**

- **Pre-alarm/trip indication as standard**

- **Fuses with “blown” indication**

- **Easy modifications and maintenance**

- **Personnel safety and asset protection through**
  - **A busbar system designed to be maintenance free**
  - **Phase-to-phase isolation before making contact**
  - **Historical records providing clear audit trail**

- **Touch proof (IP 2x) with no moving parts**

- **Creepage distances that exceed standard**

- **IEC 60439-1**

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**MNS /PDU**

- **Level of Application**
  - **Switchboard safety level MNS**
  - **IEC 60439-1**

- **Testing and certification**
  - **Level of Application**
  - **Switchboard safety level MNS**
  - **IEC 60439-1**

- **Multi-Function Wall (MFW)**
  - **Power contact connector**
  - **Load switch**
  - **T-Taps**
  - **ArTu system**

- **Filter and busbar**

- **Phase orientation and phase sequencing**

- **Phase-to-phase isolation**

- **Phase-to-ground isolation**

- **Filter and busbar**

- **Power contact connector**

- **Load switch**

- **T-Taps**

- **ArTu system**

To find out more about MNS iPDU

call: 0191 514 4555

visit: www.abb.com